

Amendment to the Abstract:

The Abstract has been amended. A revised Abstract is attached.

ABSTRACT

When ~~transmitting data is transmitted on a burst basis, a symbol having an increased a~~
~~higher modulation multinary number is partially level is~~ inserted into the transmission parts of a
burst on the ~~a symbol basis and a transmission this burst including a symbol having an~~
~~increased modulation multinary number is transmitted. Moreover, when receiving~~ When the
data transmitted ~~on including this burst basis, the data is received by judging whether on a~~
burst basis, it is determined which symbol is at a symbol position where a symbol positions are
inserted by the symbols having an increased the higher modulation multinary number is inserted
into the received burst signal or a symbol is at a level and which symbol position other than
this positions are inserted by the other symbols. This method allows increasing a
communication and increase the communication capacity while retaining the reliability of the
communication.

Respectfully submitted,


Lawrence E. Ashery, Reg. No. 34,515
Attorney for Applicants

LEA/dmw
Attachment: Abstract
Dated: December 7, 2004

P.O. Box 980
Valley Forge, PA 19482
(610) 407-0700

The Commissioner for Patents is hereby
authorized to charge payment to Deposit
Account No. 18-0350 of any fees associated
with this communication.

I hereby certify that this correspondence is being deposited
Under 37 C.F. R. § 1.10 and with sufficient postage, using
the "Express Mail Post Office to Addressee" service of the
United States Postal Service on the date indicated above
and that the deposit is addressed to Mail Stop PCT,
Commissioner for Patents, P.O. Box 1450, Alexandria, VA
22313-1450 on December 7, 2004.


Kathleen Libby

ABSTRACT

When data is transmitted on a burst basis, a symbol having a higher modulation level is inserted into parts of a burst on a symbol basis and this burst is transmitted. When the data including this burst is received on a burst basis, it is determined which symbol positions are inserted by the symbols having the higher modulation level and which symbol positions are inserted by the other symbols. This method allows increasing a communication capacity while retaining the reliability of the communication.